

इंटरनेट

मानक



Disclosure to Promote the Right To Information

Whereas the Parliament of India has set out to provide a practical regime of right to information for citizens to secure access to information under the control of public authorities, in order to promote transparency and accountability in the working of every public authority, and whereas the attached publication of the Bureau of Indian Standards is of particular interest to the public, particularly disadvantaged communities and those engaged in the pursuit of education and knowledge, the attached public safety standard is made available to promote the timely dissemination of this information in an accurate manner to the public.

“जानने का अधिकार, जीने का अधिकार”

Mazdoor Kisan Shakti Sangathan

“The Right to Information, The Right to Live”

“पुराने को छोड़ नये के तरफ”

Jawaharlal Nehru

“Step Out From the Old to the New”

IS 9193 (1988): Bearing Pullers [PGD 6: Earth, Metal And Wood Working Hand Tools]



“ज्ञान से एक नये भारत का निर्माण”

Satyanarayan Gangaram Pitroda

“Invent a New India Using Knowledge”



“ज्ञान एक ऐसा खजाना है जो कभी चुराया नहीं जा सकता है”

Bhartrhari—Nitiśatakam

“Knowledge is such a treasure which cannot be stolen”

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Indian Standard
SPECIFICATION FOR BEARING PULLERS
(First Revision)

1. Scope — Covers the dimensions and other requirements for bearing pullers.

2. Types

- a) Two leg bearing pullers, and
- b) Three leg bearing pullers.

3. Dimensions — Shall be as given in Table 1.

4. Material — Legs, housing, central bolt and link plates shall be made from suitable alloy steels meeting the requirements laid down in 5 and 9.

5. Hardness

- a) Legs : 35 HRC, Min
- b) Housing : 30 HRC, Min
- c) Central bolt : 35 HRC, Min at threads and 45 HRC, Min at tip.
- d) Link plate : 30 HRC, Min

6. Manufacture and Workmanship — All parts shall be free from cracks, pits, blow holes, seams and other manufacturing defects.

7. Surface Protection — All parts shall be protected against rust by plating with chromium or zinc or blackening by suitable process or by any other suitable process.

8. Designation — A two leg bearing puller with reach 170 mm and range 35 to 200 mm shall be designated as:

Bearing puller, two leg 170, 35 — 200, IS : 9193.

9. Torque Test — The bearing puller shall be able to withstand the following twisting moment.

Nominal Size mm	Twisting Moment Nm, Min
150	100
200	200
250	400

10. Sampling

10.1 Unless otherwise agreed to between the supplier and the purchaser, the procedure given in IS : 2500 (Part 1)-1973 'Sampling inspection tables : Part 1 Inspection by attributes and by count of defects (*first revision*),' shall be followed for sampling inspection. For various characteristics, the sampling plan as given in 10.1.1 and 10.1.2 shall be followed.

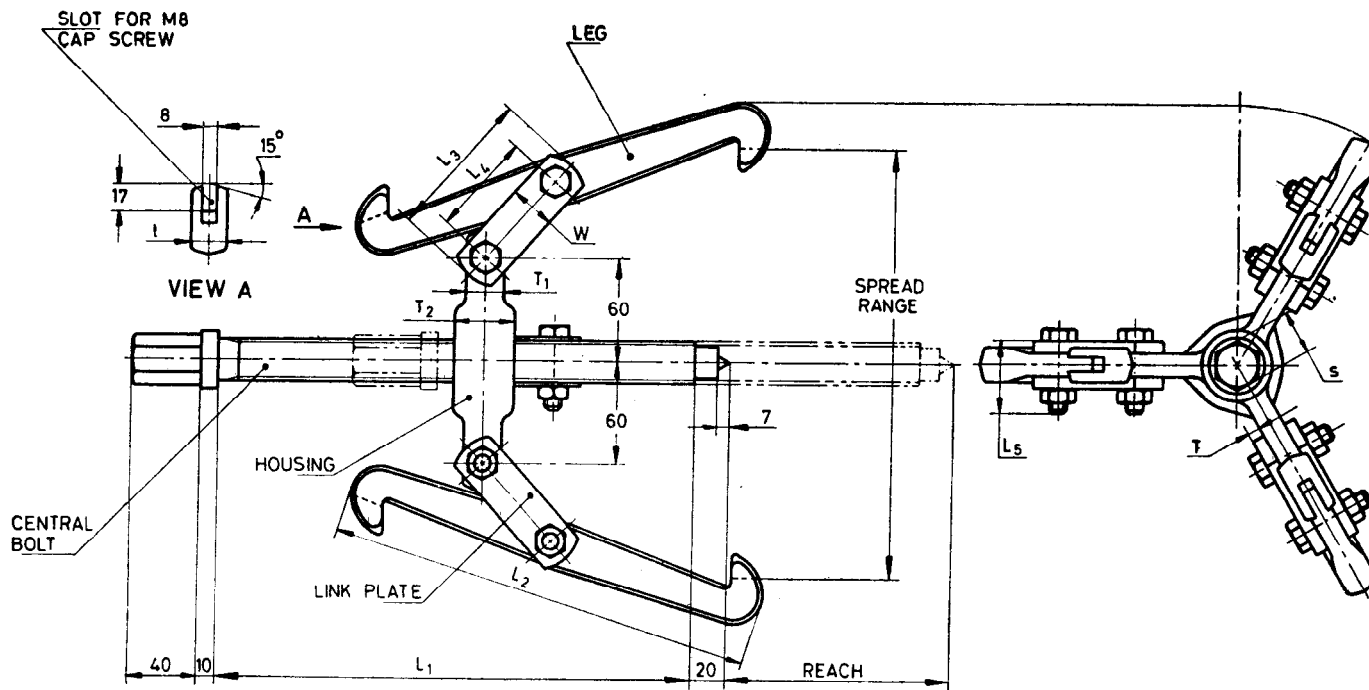
10.1.1 For inspection of dimensions, workmanship and surface protection, the sampling plan with Inspection Level III and Acceptable Quality Level (AQL) 2.5 percent given in Tables 1 and 2 of IS : 2500 (Part 1)-1973 shall be followed.

10.1.2 For hardness and test, the sampling plan with Inspection Level I and Acceptable Quality Level (AQL) 2.5 percent in Tables 1 and 2 of IS : 2500 (Part 1)-1973 shall be followed.

TABLE 1 DIMENSIONS FOR BEARING PULLERS

(Clause 3)

All dimensions in millimetres.



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Nominal Size	Central Bolt			Leg		Link Plate				Three Leg Housing			Bolt and Nut		Spread Range		Reach Max
	L ₁ ±3	s ±0.5	Threads	L ₂ ±5	t ±1	L ₃ ±5	L ₄ ±1.5	W ±2	T Max	T ₁ ±0.5	T ₂ ±0.5	Threads	L ₅ Nom	Thread	Max	Min	
150	160	16	M16×1.5	150	12	65	42	20	6	13	21	M16×1.5	35	M8×1	150	25	140
200	200	19	M20×1.5	200	16	85	58	22	7	17.5	28	M20×1.5	40	M8×1	200	35	170
250	250	24	M24×1.5	250	20	99	70	25	8	22	35	M24×1.5	45	M10×1	250	40	260

11. Marking — Bearing pullers shall be marked with type, reach, manufacturer's name, initials and/or recognized trade mark.

11.1 Standard Marking — Details available with the Bureau of Indian Standards.

EXPLANATORY NOTE

Bearing pullers are used to take out bearings, pulleys, gears, etc, with the least effort. In case the pulley is bigger than the maximum range and there is little space behind or around the pulley to be dislodged from the shaft then two or three cap screws are fixed on the face of the pulley or gear. The slotted ends of the arm of puller are then gripped on the screws and pulley be got dislodged by tightening the central bolt.

This standard was first published in 1979. This revision has been taken up in order to include the detailed dimensions of its components and to modify the hardness requirements. Load requirements have been replaced by torque requirements. While preparing this standard, assistance has been taken from the details supplied by the leading manufacturers of the product.